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| **RESEARCH LABORATORY - 2** |
| **Name of laboratory** : Functional materials |
| **Responsible** : Prof. Dr. Saadet YAPAR |
| **Partners:** Prof. Dr. Günseli Özdemir, Prof. Dr. Ayşegül Körlü, Prof. Dr. Perrin Akçakoca Kumbasar, Prof. Dr. Pınar Çelik, Doç. Dr. Sema Namlıgöz Dalbaşı, Asst. Prof. Dr. Aslı Şahiner. |
| **Researchers**  : Seren Ozan |
| **Research areas** : The synthesis of adsorbents, rheological and dye additives, catalyst, cosmetics, flame retardant cotton fabrics and antibacterial materials through the modification of clay minerals. |
| Research topics : Adsorbent and antibacterial material synthesis, adsorption |
| Application areas : Flame retardant cotton fabrics,waste water treatment and health |
| **Equipment and Setups in the laboratory** |
| |  |  | | --- | --- | | Shakers | Centrifuges | | Balances | Freeze dryer | | Ovens | Magnetic Stirrers | | Water Distillation Unit | Compressor | | Fraction Collector | Mechanical Stirrer | | Experimental set up for continuous adsorption |  | |
| **Researches and projects conducted in this laboratory** |
| Ongoing projects: Synthesis of antibacterial clays efficient against pathogen bacteria in oral cavity ( Ege University, Scientific Research Project) |
| Completed Projects :  - Modification of clay through microwave irradiation  - Antibacterial clay synthesis (Joint Project; Partner: Prof. Dr. Günseli Özdemir)  -Flame retardant cotton fabrics production (Joint Project; Partner: Textile Engineering Department,)  -Adsorption of reactive dyes (Joint Project; Partner: Textile Engineering Department)  -Use of waste wool in deodorisation (Joint Project; Partner: Textile Engineering Department,) |
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